FDP-120 HORIZONTAL DIRECTIONAL DRILLING RIG

MAIN DRILL RIG	
Max Feed Thrust / Feed Pull	1200KN(269760 lbf)
Feed Thrust/ Feed Pull System	Pinion and rack type, moving with 4 gear driving with three-speed gear shift, step less speed regulating Ⅰ shift：7m/min (23 feet/min) Ⅱ shift：16m/min (52.5 feet/min) Ⅲ shift：28m/min (91.8 feet/min)
Rotation driving	Gear transmission, step less speed regulating Ⅰshift hollow spindle torque：50000N·m(36850 lbf·ft)@38r/min Ⅱ shift hollow spindle torque：25000N·m(18425 lbf·ft)@76r/min
Motor	
Manufacturer	Weichai Power Co., Ltd
Rated Value	Two-motors 400kW (540HP), Single motor 360kW
Operational State	Thrust/Pull and rotation all can reach above mentioned max performance index.
Dimension and Gross weight	
Dimension(L×W×H)	14.5×2.8×2.85m (47.6×9.2×9.3 feet)
Gross weight	30000kg (66150 lb)
Mast Entrance Oblique Angle	

No.1, East Xinjian Road, Haizhou Development Area, Lianyungang, Jiangsu, China PC: 222062
Tel: 0086 518 85383089/85383090 Fax: 0086-518-85826328
E-mail: huanghaijixie@gmail.com
Website: www.hhdrillingrig.com

8-16°	
Environmental Standard and Service	
Engine emissions and noise meeting European II standard.	
Drilling Tool	
Drilling Rod to be used.	4 1/2″ 、5″
Reaming shell(cutting type)	Φ325 ,Φ530,Φ660,Φ760,Φ900,Φ1100mm (Φ12.8 ,Φ20.9,Φ26,Φ29.9,Φ35.4,Φ43.3 inch)
Shackles	
Clamp holder centering by it, Shackles full distance moving.	
Clamper/ Break-out Tong	Distance adjustable with accurate, stable and reliable breaking-out.
Max make-up torque	60000N·m (44220 lbf·ft)
Max break out torque	120000N.m (88440 lbf·ft) (It can be designed according to the requirement of client.)
Crane On The Rig	
3MT (9.8 feet) Straight-arm Crane.	
Mast of Rig	
Length of mast 14 meters.(45.9 feet)	
Hydraulic Mud Pump	
Full Hydraulic driving, flux step less adjustable.	
Flux Rate	0-1000L/min(0-264 US Gallons/min)
Pressure	0-8Mpa(0-1160 psi)
Chassis	
Track Caterpillar Assembly Type	
Accessory	
Pressure, flux rate, and revolution and other more than ten data will be shown in figures. This is easy for analysis and judgment of problems and conditions in the performance process.	

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